



SEQUENCE LISTING

<110> Hisatoshi SHIDA et al.

<120> HIGHLY SAFE SMALLPOX VACCINE VIRUS AND VACCINIA VIRUS VECTOR

<130> 1254-0315PUS1

<140> US 10/581,495

<141> 2006-06-02

<160> 13

<170> PatentIn Ver. 2.1

<210> 1

<211> 197

<212> DNA

<213> Vaccinia virus

<400> 1

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agttgcaacg gcgaaacaaa atattttcgt tgcgaagaaa aaaatggaaa tactttcttg 180
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<210> 2

<211> 317

<212> PRT

<213> Vaccinia virus

<400> 2

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Val Tyr Ser Thr Cys Thr Val Pro Thr Met Asn Asn Ala Lys Leu Thr
      20             25             30

Ser Thr Glu Thr Ser Phe Asn Asp Lys Gln Lys Val Thr Phe Thr Cys
      35             40             45

Asp Gln Gly Tyr His Ser Leu Asp Pro Asn Ala Val Cys Glu Thr Asp
      50             55             60

Lys Trp Lys Tyr Glu Asn Pro Cys Lys Lys Met Cys Thr Val Ser Asp
      65             70             75             80

Tyr Val Ser Glu Leu Tyr Asp Lys Pro Leu Tyr Glu Val Asn Ser Thr
      85             90             95

Met Thr Leu Ser Cys Asn Gly Glu Thr Lys Tyr Phe Arg Cys Glu Glu
      100            105            110

Lys Asn Gly Asn Thr Ser Trp Asn Asp Thr Val Thr Cys Pro Asn Ala
      115            120            125
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Glu	Cys	Gln	Pro	Leu	Gln	Leu	Glu	His	Gly	Ser	Cys	Gln	Pro	Val	Lys
130						135					140				
Glu	Lys	Tyr	Ser	Phe	Gly	Glu	Tyr	Met	Thr	Ile	Asn	Cys	Asp	Val	Gly
145					150					155					160
Tyr	Glu	Val	Ile	Gly	Ala	Ser	Tyr	Ile	Ser	Cys	Thr	Ala	Asn	Ser	Trp
				165					170					175	
Asn	Val	Ile	Pro	Ser	Cys	Gln	Gln	Lys	Cys	Asp	Met	Pro	Ser	Leu	Ser
			180					185					190		
Asn	Gly	Leu	Ile	Ser	Gly	Ser	Thr	Phe	Ser	Ile	Gly	Gly	Val	Ile	His
		195					200					205			
Leu	Ser	Cys	Lys	Ser	Gly	Phe	Thr	Leu	Thr	Gly	Ser	Pro	Ser	Ser	Thr
	210					215					220				
Cys	Ile	Asp	Gly	Lys	Trp	Asn	Pro	Ile	Leu	Pro	Thr	Cys	Val	Arg	Ser
225					230					235					240
Asn	Glu	Lys	Phe	Asp	Pro	Val	Asp	Asp	Gly	Pro	Asp	Asp	Glu	Thr	Asp
				245					250					255	
Leu	Ser	Lys	Leu	Ser	Lys	Asp	Val	Val	Gln	Tyr	Glu	Gln	Glu	Ile	Glu
			260					265					270		
Ser	Leu	Glu	Ala	Thr	Tyr	His	Ile	Ile	Ile	Val	Ala	Leu	Thr	Ile	Met
		275					280					285			
Gly	Val	Ile	Phe	Leu	Ile	Ser	Val	Ile	Val	Leu	Val	Cys	Ser	Cys	Asp
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Lys	Asn	Asn	Asp	Gln	Tyr	Lys	Phe	His	Lys	Leu	Leu	Pro			
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<210> 3

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic DNA

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22

<210> 4

<211> 25

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Synthetic DNA

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<210> 9
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 <210> 12
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